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LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			KIM, JUNG W	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 10/759,636	Applicant(s) ENE-PIETROSANU ET AL.	
	Examiner Jung Kim	Art Unit 2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the amendment filed on 9/4/07.
2. Claims 1-40 are pending.

Response to Amendment

3. The 101 rejections with respect to claims 16-29, 31 and 35-40 are withdrawn because the amendment overcomes these 101 rejections.

Response to Arguments

4. Applicant's arguments with respect to the prior art rejections of the amended claims have been considered but are moot in view of the new ground(s) of rejection.
5. It is noted that applicant formally requested an interview if the reply to the amendment is anything other than an allowance of all pending claims (see pg. 15 of Remarks). However, an interview is typically allowed to discuss the patentability of claims over the prior art of record. It is not clear on what substantive matters applicant is requesting the interview. Since the amended claims incorporated new limitations into the claims, and hence required a new search and consideration, the following patentability determination of the amended claims are presented to the applicant anew.

Claim Objections

6. Claim 17 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 17 defines the computer readable medium as recited in claim 16 further comprising establishing at least one cryptographic service parameter threshold. However, this limitation is already included in parent claim 16 in line 4.

Claim Rejections - 35 USC § 103

7. Claims 1-7, 10-21, 23-33 and 35-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elgamal et al. USPN 6,397,330 (hereinafter Elgamal) in view of Freeman USPN 6,308,266. (hereinafter Freeman)

8. As per claims 16-21 and 23-28, Elgamal discloses a computer readable medium having computer-implementable instructions embodied thereon, which when executed cause one or more processing units to perform acts comprising:

- a. Establishing at least one cryptography service parameter threshold; selectively detecting a request for at least one cryptography service; and selectively performing at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy at least one cryptography service parameter threshold; (Col. 5:60-6:4; 6:19-37 and lines 53-55; 7:11-28)

- b. wherein establishing said at least one cryptography service parameter threshold includes at least one of the following acts: identifying unacceptable cryptography algorithms; and identifying acceptable cryptography algorithms (6:26-27 and lines 57-60; 7:15-17 and lines 22-28);
- c. wherein establishing said at least one cryptography service parameter threshold includes at least one of the following acts: identifying at least one unacceptable cryptography key size parameter; and identifying at least one acceptable cryptography key size parameter (5:66-6:2; 6:25-31 and lines 53-56);
- d. wherein establishing said at least one cryptography service parameter threshold includes establishing a plurality of correctness categories, wherein each at least one of said plurality of correctness categories includes at least one cryptography algorithm identifier (6:57-65; 8:1-34 "Table 2");
- e. wherein said plurality of correctness categories includes at least one correctness category selected from a group of correctness categories comprising authorized algorithms, unauthorized algorithms, weak algorithms, and strong algorithms (5:66-6:2; 6:25-37);
- f. wherein selectively detecting said request for at least one cryptography service includes monitoring at least one process selected from a group of processes comprising an application, an operating system, a cryptography algorithm, and a cryptography application programming interface. (5:60-61; 6:19-21)

- g. wherein selectively performing said at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy said at least one cryptography service parameter threshold includes determining if a cryptographic key associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold (6:2; 6:25-31);
- h. wherein determining if said cryptographic key associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold includes comparing a size of said cryptographic key with said at least one cryptography service parameter threshold (6:2; 6:25);
- i. wherein selectively performing said at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy said at least one cryptography service parameter threshold includes determining if a cryptographic algorithm associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold (5:66-6:4; 6:25-35; 7:15-20);
- j. wherein determining if said cryptographic algorithm associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold further includes comparing a cryptography algorithm identifier with said at least one cryptography service parameter threshold (5:66-6:4; 6:25-35; 7:15-20);

k. wherein selectively performing said at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy said at least one cryptography service parameter threshold includes performing at least one action selected from a group of actions comprising interrupting at least one process, stopping at least one process, starting at least one process, displaying alert information, logging alert information, suggesting at least one alternative cryptography service, outputting alert messages, causing alteration of a graphical user interface, and forcing use of at least one other cryptography service (6:3-4, 30 and lines 57-60).

Elgamal does not disclose wherein the at least one correctness detection action selectively performing includes suggesting at least one alternative cryptographic service. Freeman discloses a system to support varying grades of cryptographic strength operations for requesting applications including when a user application requests a strong cryptographic operation, several checks are performed including verifying a submitted certification certifying authority, checking expiration dates of the certificate and checking the certificate against a CRL. If any of the checks returns false, then the cryptographic service denies the request for higher strength cryptography and enables only a lower strength cryptography; otherwise, the cryptographic service grants the request for the higher strength cryptography. (10:17-67) Such a feature ensures that at least a baseline cryptographic functionality is provided to ensure secure and continuous operation of the requesting application as known to one of ordinary skill in the art. It would be obvious to one of ordinary skill in the art at the time the invention

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was made wherein the at least one correctness detection action selectively performing includes suggesting at least one alternative cryptographic service. One would be motivated to do so to provide at least one baseline cryptographic functionality to ensure secure and continuous operation of the requesting application as known to one of ordinary skill in the art. The aforementioned cover the limitations of claims 16-21 and 23-28.

9. As per claims 1-7 and 10-15, they are method claims corresponding to claims 16-21 and 23-28, and they do not teach or define above the information claimed in claims 16-21 and 23-28. Therefore, claims 1-7 and 10-15 are rejected as being unpatentable over Elgamal in view of Freeman for the same reasons set forth in the rejections of claims 16-21 and 23-28.

10. As per claims 29-33 and 35-40, they are apparatus claims corresponding to claims 16-21 and 23-28. In addition, Elgamal discloses cryptography correctness detection logic configured to perform the acts listed in claims 16-21 and 23-28, and moreover, Elgamal discloses memory operatively coupled to the correctness detection logic, wherein the cryptography service parameter threshold is in the memory. (fig. 1, "Policy Filters" and related text) As such, claims 29-33 and 35-40 are rejected as being unpatentable over Elgamal in view of Freeman.

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11. Claims 1-3, 6, 7, 10, 13-18, 20, 21, 23, 26-31, 33, 35 and 38-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Griffin et al. USPN 7,079,648 (hereinafter Griffin) in view of Freeman.

12. As per claims 16-18, 20, 21, 23 and 26-28, Griffin discloses a computer readable medium having computer-implementable instructions for causing one or more processing units to perform acts comprising:

l. selectively detecting a request for at least one cryptography service; and selectively performing at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy at least one cryptography service parameter threshold; (Col. 5:1-41)

m. establishing said at least one cryptography service parameter threshold; (5:4-5 and lines 50-55; 7:29-45)

n. wherein establishing said at least one cryptography service parameter threshold includes at least one of the following acts: identifying unacceptable cryptography algorithms; and identifying acceptable cryptography algorithms (5:50-58; 7:21-45);

o. wherein establishing said at least one cryptography service parameter threshold includes establishing a plurality of correctness categories, wherein each at least one of said plurality of correctness categories includes at least one cryptography algorithm identifier (5:4-5 and lines 50-55);

- p. wherein said plurality of correctness categories includes at least one correctness category selected from a group of correctness categories comprising authorized algorithms, unauthorized algorithms, weak algorithms, and strong algorithms (5:5-7; 7:29-62);
- q. wherein selectively detecting said request for at least one cryptography service includes monitoring at least one process selected from a group of processes comprising an application, an operating system, a cryptography algorithm, and a cryptography application programming interface. (5:1-5)
- r. wherein selectively performing said at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy said at least one cryptography service parameter threshold includes determining if a cryptographic algorithm associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold (7:21-62);
- s. wherein determining if said cryptographic algorithm associated with said requested cryptography service is suitable for use based on said at least one cryptography service parameter threshold further includes comparing a cryptography algorithm identifier with said at least one cryptography service parameter threshold (7:21-62);
- t. wherein selectively performing said at least one correctness detection action based on said requested cryptography service if said requested cryptography service does not satisfy said at least one cryptography service

parameter threshold includes performing at least one action selected from a group of actions comprising interrupting at least one process, stopping at least one process, starting at least one process, displaying alert information, logging alert information, suggesting at least one alternative cryptography service, outputting alert messages, causing alteration of a graphical user interface, and forcing use of at least one other cryptography service (5:17-47).

Elgamal does not disclose wherein the at least one correctness detection action selectively performing includes suggesting at least one alternative cryptographic service. Freeman discloses a system to support varying grades of cryptographic strength operations for requesting applications including when a user application requests a strong cryptographic operation, several checks are performed including verifying a submitted certification certifying authority, checking expiration dates of the certificate and checking the certificate against a CRL. If any of the checks returns false, then the cryptographic service denies the request for higher strength cryptography and enables only a lower strength cryptography; otherwise, the cryptographic service grants the request for the higher strength cryptography. (10:17-67) Such a feature ensures that at least a baseline cryptographic functionality is provided to ensure secure and continuous operation of the requesting application as known to one of ordinary skill in the art. It would be obvious to one of ordinary skill in the art at the time the invention was made wherein the at least one correctness detection action selectively performing includes suggesting at least one alternative cryptographic service. One would be motivated to do so to provide at least one baseline cryptographic functionality to ensure

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secure and continuous operation of the requesting application as known to one of ordinary skill in the art. The aforementioned cover the limitations of claims 16-18, 20, 21, 23 and 26-28.

13. As per claims 1-3, 6, 7, 10 and 13-15, they are method claims corresponding to claims 16-18, 20, 21, 23 and 26-28, and they do not teach or define above the information claimed in claims 16-18, 20, 21, 23 and 26-28. Therefore, claims 1-3, 6, 7, 10 and 13-15 are rejected as being unpatentable over Griffin in view of Freeman for the same reasons set forth in the rejections of claims 16-18, 20, 21, 23 and 26-28.

14. As per claims 29-31, 33, 35 and 38-40, they are apparatus claims corresponding to claims 1-3, 6, 7, 10 and 13-15. In addition, Griffin discloses cryptography correctness detection logic configured to perform the acts listed in claims 1-3, 6, 7, 10 and 13-15, and moreover, Griffin discloses memory operatively coupled to the correctness detection logic, wherein the cryptography service parameter threshold is in the memory. (fig. 1, reference nos. 110 and 200, and fig. 5 'System memory' and related text) As such, claims 29-31, 33, 35 and 38-40 are rejected as being anticipated by Griffin.

15. Claims 8, 9, 22 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elgamal in view of Freeman and further in view of Fielder et al. USPN 5,963,646 (hereinafter Fielder).

16. As per claim 22, the rejection of claim 17 under 35 USC 103(a) as being unpatentable over Elgamal in view of Freeman is incorporated herein. In addition, Elgamal discloses disabling a crypto module if the module does not correctly implement the algorithms and/or key sizes configured, and removing unauthorized cipher suites, wherein a cipher suite is a collection of encryption algorithms, key sizes, and parameters that specifies the type and strength of a particular cryptographic operation. (Col. 5:66-6:5; 6:25-31) Elgamal does not expressly disclose, wherein establishing said at least one cryptography service parameter threshold includes at least one of the following acts: identifying at least one acceptable seed size parameter; and identifying at least one unacceptable seed size parameter. However, it is well known in the art at the time of invention that the length or size of a seed value, which is used to generate a cryptographic key directly corresponds to the cryptographic strength of the key value used in a cipher function. For example, Fielder discloses a key generator that takes as inputs one or more seed values to generate a deterministic encryption key. Fig. 2. Fielder further discloses that the size of the seed value has a direct relationship to the strength of the generated encryption key. Col. 5:54-6:4. Hence, a seed value is a significant parameter that specifies the type and strength of a particular cryptographic operation. Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made for the act of establishing the at least one cryptographic service parameter threshold as disclosed by Elgamal to include at least one of the following acts: identifying at least one acceptable seed size parameter; and identifying at least one unacceptable seed size parameter. One would be motivated to do so because

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seed size directly corresponds to the strength of a particular cryptographic operation as taught by Fielder and as known to one of ordinary skill in the art. The aforementioned covers the limitation of claim 22.

17. As per claims 8 and 9, they are method claims corresponding to claim 22, and they do not teach or define above the information claimed in claim 22. Therefore, claims 8 and 9 are rejected as being unpatentable over Elgamal in view of Freeman and Fielder for the same reasons set forth in the rejection of claim 22.

18. As per claim 34, it is an apparatus claims corresponding to claims 22 and 30, and it does not teach or define above the information claimed in claims 22 and 30. Therefore, claim 34 is rejected as being unpatentable over Elgamal in view of Freeman and Fielder for the same reasons set forth in the rejection of claim 22 and 30.

Conclusion

19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communications Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung W. Kim whose telephone number is 571-272-3804. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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